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Amazon SCS-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Infrastructure Security: Aspiring AWS Security specialists are trained to implement and troubleshoot security controls for edge services, networks, and compute workloads under this topic. Emphasis is placed on ensuring resilience and mitigating risks across AWS infrastructure. This section aligns closely with the exam's focus on safeguarding critical AWS services and environments.
Topic 2	<ul style="list-style-type: none">Identity and Access Management: The topic equips AWS Security specialists with skills to design, implement, and troubleshoot authentication and authorization mechanisms for AWS resources. By emphasizing secure identity management practices, this area addresses foundational competencies required for effective access control, a vital aspect of the certification exam.
Topic 3	<ul style="list-style-type: none">Management and Security Governance: This topic teaches AWS Security specialists to develop centralized strategies for AWS account management and secure resource deployment. It includes evaluating compliance and identifying security gaps through architectural reviews and cost analysis, essential for implementing governance aligned with certification standards.

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Amazon AWS Certified Security - Specialty Sample Questions (Q379-Q384):

NEW QUESTION # 379

A company runs workloads on Amazon EC2 instances. The company needs to continually scan the EC2 instances for software vulnerabilities and unintended network exposure.

Which solution will meet these requirements?

- A. Use Amazon GuardDuty. Enable the Malware Protection feature.
- B. Use Amazon GuardDuty. Enable the Runtime Monitoring feature.
- C. Use Amazon Inspector. Set the scan mode to hybrid scanning.
- D. Use Amazon Inspector. Enable the Malware Protection feature.

Answer: D

Explanation:

Amazon Inspector offers automated, continuous vulnerability scanning for Amazon EC2 instances. The new version includes Malware Protection, which scans for malicious software as part of its inspection process.

This capability enables both detection of software vulnerabilities and malicious activity (like viruses or rootkits), thus covering both parts of the requirement: vulnerabilities and unintended network exposure.

This falls under Infrastructure Security and aligns with recommended practices for securing compute resources on AWS.

NEW QUESTION # 380

A security engineer has noticed an unusually high amount of traffic coming from a single IP address. This was discovered by analyzing the Application Load Balancer's access logs.

How can the security engineer limit the number of requests from a specific IP address without blocking the IP address?

- A. Add a rule to the Application Load Balancer to route the traffic originating from the IP address in question and show a static webpage.
- B. Implement a rate-based rule with AWS WAF.
- C. Use AWS Shield to limit the originating traffic hit rate.
- D. Implement the GeoLocation feature in Amazon Route 53.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To mitigate traffic volume from a specific IP address without entirely blocking it, AWS WAF's rate-based rules are the appropriate solution. AWS WAF (Web Application Firewall) provides rate-based rules that allow a user to count and limit the rate of requests from individual IP addresses.

A rate-based rule tracks the number of requests that each originating IP makes in a rolling five-minute period. If the number of requests exceeds a specified threshold, WAF applies an action such as block or count.

This makes AWS WAF an ideal tool to throttle traffic rather than block it, which directly meets the use case described.

Reference from AWS Certified Security - Specialty Official Guide:

This capability is part of AWS WAF's standard feature set, explicitly covered under the topics of Logging and Monitoring and Mitigating DDoS and Abnormal Behavior. Rate-based rules are discussed as a method for limiting the number of incoming requests based on request patterns without denying access outright.

NEW QUESTION # 381

A company's public Application Load Balancer (ALB) recently experienced a DDoS attack. To mitigate this issue, the company deployed Amazon CloudFront in front of the ALB so that users would not directly access the Amazon EC2 instances behind the ALB.

The company discovers that some traffic is still coming directly into the ALB and is still being handled by the EC2 instances.

Which combination of steps should the company take to ensure that the EC2 instances will receive traffic only from CloudFront? (Choose two.)

- A. Configure CloudFront to add a custom HTTP header to requests that CloudFront sends to the ALB.
- B. Configure the ALB and CloudFront to use the same X.509 certificate that is generated by AWS Certificate Manager (ACM).
- C. Configure the ALB to forward only requests that contain the custom HTTP header.
- D. Configure the ALB and CloudFront to use the X-Forwarded-For header to check client IP addresses.
- E. Configure CloudFront to add a cache key policy to allow a custom HTTP header that CloudFront sends to the ALB.

Answer: A,C

Explanation:

To prevent users from directly accessing an Application Load Balancer and allow access only through CloudFront, complete these high-level steps: Configure CloudFront to add a custom HTTP header to requests that it sends to the Application Load Balancer. Configure the Application Load Balancer to only forward requests that contain the custom HTTP header. (Optional) Require HTTPS to improve the security of this solution.

<https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/restrict-access-to-load-balancer.html>

NEW QUESTION # 382

A company has hundreds of AWS accounts and uses AWS Organizations. The company plans to create many different IAM roles and policies for its product team, security team, and platform team. Some IAM policies will be shared across teams.

A security engineer needs to implement a solution to logically group together the IAM roles of each team. The solution must allow only the platform team to delegate IAM permissions to AWS services.

Which solution will meet these requirements?

- A. Set up an IAM path with the IAM roles for each team. Deploy an SCP that denies the iamPassRole permission to all entities except the IAM path of the platform team.
- B. Apply different tags for each team to the IAM roles. Deploy an SCP that denies the sts:AssumeRole permission to all entities except the roles of the platform team.
- C. Set up an IAM path with the IAM roles for each team. Use IAM permissions boundaries to deny the sts:AssumeRole permission to the IAM roles for the product team and the security team.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

IAM paths allow organizations to logically group IAM resources such as roles. By setting IAM paths for different teams, the company can identify and control access granularly. The iamPassRole action is critical for delegating permissions, especially to AWS services. By attaching a Service Control Policy (SCP) that denies iamPassRole for all roles except those in the platform team's IAM path, the organization enforces centralized delegation control.

This approach fulfills the need for logical grouping (via paths) and enforces delegated access through SCPs, in line with IAM and Governance best practices.

NEW QUESTION # 383

Within a VPC, a corporation runs an Amazon RDS Multi-AZ DB instance. The database instance is connected to the internet through a NAT gateway via two subnets.

Additionally, the organization has application servers that are hosted on Amazon EC2 instances and use the RDS database. These EC2 instances have been deployed onto two more private subnets inside the same VPC.

These EC2 instances connect to the internet through a default route via the same NAT gateway. Each VPC subnet has its own route table.

The organization implemented a new security requirement after a recent security examination. Never allow the database instance to connect to the internet. A security engineer must perform this update promptly without interfering with the network traffic of the application servers.

How will the security engineer be able to comply with these requirements?

- A. Configure the route table of the NAT gateway to deny connections to the DB instance subnets.
- B. Remove the existing NAT gateway. Create a new NAT gateway that only the application server subnets can use.
- C. Configure the DB instance's inbound network ACL to deny traffic from the security group ID of the NAT gateway.
- D. **Modify the route tables of the DB instance subnets to remove the default route to the NAT gateway.**

Answer: D

Explanation:

Each subnet has a route table, so modify the routing associated with DB instance subnets to prevent internet access.

NEW QUESTION # 384

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